

Application No. 09/990,491
Official Amendment dated November 14, 2003
Reply to Office Action of August 14, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1. (currently amended) A grinding tool inserted to a hole provided in a subject to be worked while rotating so as to grind the inner surface of the hole, comprising:

a tool main body including an outer surface along an axial direction, and in which abrasive grains ~~such as diamond powders or the like are~~ adhered to at least a portion of the outer surface ~~in the axial direction and wherein~~ that portion consists of a grinding portion, wherein at least a portion of the tool main body is formed in a cylindrical shape; and

a working member ~~in which~~ including a front portion, a rear portion, and a working portion is provided in the front portion of the working member to perform working processes before or after grinding of the inner surface in the subject to be worked, and a wherein the rear portion that is capable of being combined to with the tool main body to be able to be attached thereto and removed therefrom ~~in such a way as to maintain the working portion to the front end side of the tool main body;~~

wherein a female screw portion is formed in an inner surface of the front end portion of the tool main body, and the working member includes a male screw portion that is capable of being screwed into the female screw portion.

2. (currently amended) The grinding tool according to ~~Claim~~ claim 1, wherein the tool main body includes a slitted portion including said tool main body in which at least the front

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~~end portion in the axial direction is formed in a cylindrical shape, slits in the axial direction are provided in a portion in the axial direction of the cylinder portion at a predetermined interval in a circumferential direction, abrasive grains such as diamond powders or the like are adhered to the outer surface thereof so as of the slitted portion to form an expandable a grinding portion in the axial portion, and an expanding member is press-fitted within the grinding portion to expand the grinding portion, thereby adjusting the outer diameter of the grinding portion.~~

3. (cancelled)

4. (currently amended) The grinding tool according to ~~Claim 3~~ claim 2, wherein a ~~male screw portion to be screwed into the female screw portion of the tool main body is provided on the outer surface of the front portion, and an expanding head to be press fitted into the grinding tool is provided in the rear portion is disposed inside the tool main body.~~

5. (currently amended) A grinding tool inserted to a hole provided in a subject to be worked while rotating so as to grind the inner surface of the hole, comprising:

B) a tool main body in which abrasive grains are adhered to at least a portion of an outer surface thereof such that said portion comprises a grinding portion; and

a working member comprising a front portion and a rear portion wherein a working portion is provided in the front portion to perform working processes before or after grinding of

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the inner surface in the subject to be worked, and the rear portion is capable of being attached to the tool main body and removed therefrom.

~~The grinding tool according to claim 1, wherein the working member is selected from the group consisting of provided with a grinding reamer and a rotating brush.~~

6. (currently amended) The grinding tool according to claim 2, wherein the ~~inner surface of the grinding portion is constituted by a taper~~ includes an inner surface that includes a tapered surface which has a diameter which is gradually reduced toward the rear end side, and an the expanding member that expands is capable of expanding the grinding portion by operating an expanding head press fitted in the grinding portion in the axial direction.

7. (currently amended) The grinding tool according to claim 2, wherein the working member is selected from the group consisting of provided with a grinding reamer and a rotating brush.

B/ 8. (cancelled)

112 and
same limitation
as
in
25.
9. (currently amended) The grinding tool according to claim 4 5, wherein the working member is selected from the group consisting of provided with a grinding reamer and a rotating brush.

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10. (cancelled)
11. (currently amended) The grinding tool according to claim 4 5, wherein the ~~inner surface of the grinding portion includes an inner surface that includes a tapered is constituted by a~~ taper surface ~~which has a diameter which is gradually reduced toward the rear end side, and an~~ expanding member ~~is disposed inside the main tool body that expands the grinding portion by operating an expanding head press fitted in the grinding portion in the axial direction.~~
12. (new) The grinding tool according to claim 1, wherein the abrasive grains comprise diamond powder.
13. (new) The grinding tool according to claim 2, wherein the slits are parallel to an axial direction of the main tool body.
14. (new) A grinding tool comprising:
a tool main body including
a front end portion having a cylindrical shape and a female screw portion formed therein,
an outer surface, and
abrasive grains adhered to the outer surface; and
a working member including

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a front portion comprising a working portion, and
a rear portion comprising a male screw portion that is capable of being threaded
into and threaded out of the female screw portion of the tool main body front portion.

§ 1 concluded
